

FORM PTO 449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

16518.132

APPLICATION NO.

10/647,517

APPLICANTS

Mylavarapu VENKATRAMESH *et al.*

FILING DATE

January 16, 2004

GROUP

1638

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|-----|--------------------|------|------|-------|---------------|-------------|
| | AA1 | | | | | | |
| | AB1 | | | | | | |
| | AC1 | | | | | | |
| | AD1 | | | | | | |
| | AE1 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|-----|--------------------|------|---------|-------|---------------|-------------|
| | AF1 | | | | | | Yes No |
| | AG1 | | | | | | Yes No |
| | AH1 | | | | | | Yes No |
| | AI1 | | | | | | Yes No |
| | AJ1 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | | | | | |
|-------|-----|---|--|--|--|--|--|
| /DDC/ | AK1 | Venkatramesh, Mylavarapu, <i>et al.</i> , "Expression of a <i>Streptomyces</i> 3-Hydroxysteroid Oxidase Gene in Oilseeds for Converting Phytosterols to Phytosteranols", <i>Phytochemistry</i> , 62 (2003) 39-46. | | | | | |
| | AL1 | | | | | | |
| | AM1 | | | | | | |
| | AN1 | | | | | | |
| | AO1 | | | | | | |
| | AP1 | | | | | | |


EXAMINER

/Deborah Carr/

DATE CONSIDERED

05/10/2007

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| | FILING DATE | GROUP |
| | August 26, 2003 | To Be Assigned |

U.S. PATENT DOCUMENTS

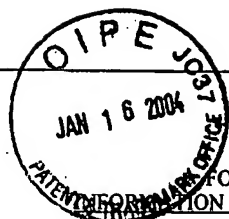
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | REFERENCE PROVIDED* |
|------------------|-----|-----------------|---------|--------------------------|---------------------|
| /DDC/ | AA1 | 4,588,717 | 5/1986 | Mitchell | 09/548,256 |
| | AB1 | 5,244,887 | 9/1993 | Straub | 09/548,256 |
| | AC1 | 5,270,041 | 12/1993 | Eugster <i>et al.</i> | 09/548,256 |
| | AD1 | 5,306,862 | 4/1994 | Chappell <i>et al.</i> | 09/548,256 |
| | AE1 | 5,365,017 | 11/1994 | Chappell <i>et al.</i> | 09/548,256 |
| | AF1 | 5,420,034 | 5/1995 | Kridl <i>et al.</i> | 09/548,256 |
| | AG1 | 5,432,069 | 7/1995 | Grüniger <i>et al.</i> | 09/548,256 |
| | AH1 | 5,451,513 | 9/1995 | Maliga <i>et al.</i> | 09/548,256 |
| | AI1 | 5,518,908 | 5/1996 | Corbin <i>et al.</i> | 09/548,256 |
| | AJ1 | 5,530,185 | 6/1996 | Martineau <i>et al.</i> | 09/548,256 |
| | AK1 | 5,530,191 | 6/1996 | Maliga | Submitted herewith |
| | AL1 | 5,554,369 | 9/1996 | Corbin <i>et al.</i> | 09/548,256 |
| | AM1 | 5,558,862 | 9/1996 | Corbin <i>et al.</i> | 09/548,256 |
| | AN1 | 5,576,198 | 11/1996 | McBride <i>et al.</i> | 09/548,256 |
| | AO1 | 5,589,619 | 12/1996 | Chappell <i>et al.</i> | 09/548,256 |
| | AP1 | 5,608,152 | 3/1997 | Kridl <i>et al.</i> | 09/548,256 |
| | AQ1 | 5,693,507 | 12/1997 | Daniell <i>et al.</i> | 09/548,256 |
| | AR1 | 5,753,475 | 5/1998 | Houck | 09/548,256 |
| | AS1 | 5,763,245 | 6/1998 | Greenplate <i>et al.</i> | 09/548,256 |
| | AT1 | 5,811,636 | 9/1998 | Hanna <i>et al.</i> | 09/548,256 |
| | AU1 | | | | |

FOREIGN PATENT DOCUMENTS

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|-------------------------|-----|-----------------|--------|---------|-------------------------------|-------------|
| /DDC/ | AV1 | 0 255 378 A3 | 2/1988 | Europe | 09/548,256 | Yes No |
| /DDC/ | AW1 | 0 706 320 B1 | 4/1996 | Europe | 09/548,256 | Yes No |
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|---------------------|-----|--------------------|---------|---------|------------------------|--------------------|
| /DDC/ | AA2 | 0 839 458 | 5/1998 | Europe | 09/548,256 | Yes No |
| | AB2 | 1 033 405 | 9/2000 | Europe | 09/548,256 | Yes No |
| | AC2 | 90/05788 | 5/1990 | PCT | 09/548,256 | Yes No |
| | AD2 | 92/19640 | 11/1992 | PCT | 09/548,256 | Yes No |
| | AE2 | 93/16187 | 8/1993 | PCT | 09/548,256 | Abstract Yes No |
| | AF2 | 95/01098 | 1/1995 | PCT | 09/548,256 | Yes No |
| | AG2 | 95/16783 | 6/1995 | PCT | 09/548,256 | Yes No |
| | AH2 | 95/24492 | 9/1995 | PCT | 09/548,256 | Yes No |
| | AI2 | 95/24493 | 9/1995 | PCT | 09/548,256 | Yes No |
| | AJ2 | 96/38047 | 12/1996 | PCT | 09/548,256 | Yes No |
| | AK2 | 97/27285 | 07/1997 | PCT | 09/548,256 | Yes No |
| | AL2 | 97/39112 | 10/1997 | PCT | 09/548,256 | Yes No |
| | AM2 | 97/42830 | 11/1997 | PCT | 09/548,256 | Yes No |
| | AN2 | 97/48793 | 12/1997 | PCT | 09/548,256 | Yes No |
| | AO2 | 98/06405 | 2/1998 | PCT | 09/548,256 | Yes No |
| | AP2 | 98/06714 | 2/1998 | PCT | 09/548,256 | Yes No |
| | AQ2 | 98/06862 | 2/1998 | PCT | 09/548,256 | Yes No |
| | AR2 | 98/17789 | 4/1998 | PCT | 09/548,256 | Abstract Yes No |
| | AS2 | 98/45457 | 10/1998 | PCT | 09/548,256 | Yes No |
| | AT2 | 99/04622 | 2/1999 | PCT | 09/548,256 | Yes No |
| | AU2 | 99/07867 | 2/1999 | PCT | 09/548,256 | Yes No |

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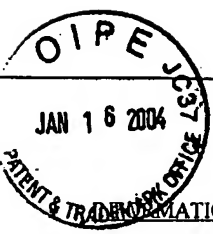
/Deborah Carr/

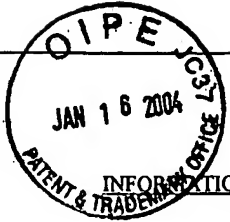
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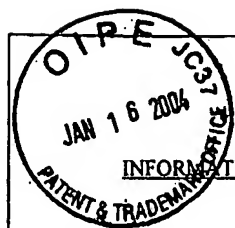
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| /DDC/ | AA3 | 99/63096 | 12/1999 | PCT | 09/548,256 | Yes No | |
| ↓ | AB3 | 00/08190 | 2/2000 | PCT | 09/548,256 | Yes No | |
| | AC3 | 00/10380 | 3/2000 | PCT | 09/548,256 | Yes No | |
| | AD3 | 00/32757 | 6/2000 | PCT | 09/548,256 | Yes No | |
| | AE3 | 00/32791 | 6/2000 | PCT | 09/548,256 | Yes No | |
| | AF3 | 01/04330 | 1/2001 | PCT | 09/548,256 | Abstract | Yes No |
| | AG3 | | | | | Yes No | |
| | AH3 | | | | | Yes No | |
| | AI3 | | | | | Yes No | |
| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | REFERENCE PROVIDED* | |
| /DDC/ | AJ | 3 | Database EST Id.: 1036015, GenBank Accession No. AA394495 | | | 09/548,256 | |
| ↓ | AK | 3 | Database EST Id.: 1456547, GenBank Accession No. AA739734 | | | 09/548,256 | |
| | AL | 3 | Database EST Id.: 2304763, GenBank Accession No. AI491090 | | | 09/548,256 | |
| | AM | 3 | Database EST Id.: 2949724, GenBank Accession No. AI861123 | | | 09/548,256 | |
| | AN | 3 | Database LOCUS ATT22E16, Accession No. AL132975 | | | 09/548,256 | |
| | AO | 3 | Database EST Id.: 4171593, GenBank Accession No.: AV442303 | | | 09/548,256 | |
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| /DDC/ | AA | 4 | Database EST Id.: 3548916, GenBank Accession No.: AW203676 | |
| | AB | 4 | Database EST Id.: 3592347, GenBank Accession No.: AW234714 | |
| | AC | 4 | Database EST Id.: 3799016, GenBank Accession No.: AW396663 | |
| | AD | 4 | Database EST Id.: 3925593, GenBank Accession No. AW506800 | |
| | AE | 4 | Database EST Id.: 4003115, GenBank Accession No. AW570599 | |
| | AF | 4 | Database EST Id.: 37082, GenBank Accession No. D23767 | |
| | AG | 4 | Database EST Id.: 1446792, GenBank Accession No.: T44209 | |
| | AH | 4 | Database EST Id.: 1448982, GenBank Accession No.: T45440 | |
| | AI | 4 | Bouvier-Nave <i>et al.</i> , "Identification of cDNAs Encoding Sterol Methyl-Transferases Involved in the Second Methylation Step of Plant Sterol Biosynthesis", <u>Europ. J. Biochem.</u> , 246(2):518-519 (1997) | |
| | AJ | 4 | Broun and Somerville, "Progress in Plant Metabolic Engineering", <u>PNAS</u> , 98(16):8925-8927 (2001) | |
| ↓ | AK | 4 | Caelles <i>et al.</i> , "Isolation and Structural Characterization of a cDNA Encoding Arabidopsis Thaliana 3-hydroxy-3-Methylglutaryl Coenzyme A Reductase", <u>Plant Mol. Biol.</u> , 13(6):627-638 (1989) | |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | REFERENCE PROVIDED* |
| /DDC/ | AA | 5 | Chappell <i>et al.</i> , "Is the Reaction Catalyzed by 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase a Rate-Limiting Step for Isoprenoid Biosynthesis in Plants?", <u>Plant Physiology, US</u> , American Society of Plant Physiologists, Rockville, MD, 109(4):1337-1343 (1995) | Submitted Herewith |
| | AB | 5 | Cho <i>et al.</i> , "Introduction and Expression of the Streptomyces Cholesterol Oxidase Gene (ChoA), a Potential Insecticidal Protein Active Against Boll Weevil Larvae, Into Tobacco Cells", <u>Appl. Micro. Biotech.</u> , 44(1-2):133-138(1995) | 09/548,256 |
| | AC | 5 | Chye <i>et al.</i> , "Characterization of cDNA and Genomic Clones Encoding 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase from Hevea Brasiliensis", <u>Plant Mol. Biol.</u> , 16(4):567-577 (1991) | 09/548,256 |
| | AD | 5 | Corbin <i>et al.</i> , "Cloning of an Insecticidal Cholesterol Oxidase Gene and Its Expression in Bacteria and in Plant Protoplasts", <u>Appl. and Environ. Micro.</u> , 60(12):4239-4244 (1994) | 09/548,256 |
| | AE | 5 | Corbin <i>et al.</i> , "New Proteins for the Control of Insects in Transgenic Crops", <u>HortScience</u> , 34(4):699, No. 786 (1996) | 09/548,256 |
| | AF | 5 | Corbin <i>et al.</i> , "The Identification and Development of Proteins for control of Insects in Genetically Modified Crops", <u>HortScience</u> , 33(4):614-617 (1998) | 09/548,256 |
| | AG | 5 | d'Harlingue <i>et al.</i> , "Plastid Enzymes of Terpenoid Biosynthesis", <u>J. Biol. Chem.</u> , 260(28):15200-15203 (1985) | 09/548,256 |
| | AH | 5 | Dyas <i>et al.</i> , "Steryl Fatty Acyl Esters in Plants", <u>Phytochemistry</u> , 34(1):17-29 (1993) | 09/548,256 |
| | AI | 5 | Estruch <i>et al.</i> , "Transgenic Plants: An Emerging Approach to Pest Control", <u>Nature Biotechnology</u> , 15(2):137-141 (1997) | 09/548,256 |
| | AJ | 5 | Falco <i>et al.</i> , "Transgenic canola and soybean seeds with increased lysine", <u>Bio-Technology</u> , 13(6):577-582 (1995) (Abstract) | Submitted Herewith |
| ↓ | AK | 5 | Fujioka <i>et al.</i> , "The Arabidopsis <i>deetiolated2</i> Mutant in Blocked Early in Brassinosteroid Biosynthesis", <u>The Plant Cell</u> , 9(11):1951-1962 (1997) | 09/548,256 |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

REFERENCE
PROVIDED*

| | | | | |
|-------|----|---|---|-----------------------|
| /DDC/ | AA | 6 | Fujishiro <i>et al.</i> , "Isolation and Identification of the Gene of Cholesterol Oxidase from <i>Brevibacterium Sterolicum</i> ATCC 21387, a Widely Used Enzyme in Clinical Analysis", <u>Biochem. and Biophys. Res. Comm.</u> , 172(2):721-727 (1990) | 09/548,256 |
| | AB | 6 | Fuqua <i>et al.</i> , "Characterization of <i>mclA</i> : A Gene Encoding Melanin Biosynthesis from the Marine Bacterium <i>Shewanella Colwelliana</i> ", <u>Gene</u> 109, 109(1):131-136 (1991) | 09/548,256 |
| | AC | 6 | Godoy-Hernandez <i>et al.</i> , "Antisense Expression of <i>hmg1</i> from <i>Arabidopsis thaliana</i> Encoding 3-hydroxy-3-methylglutaryl Coenzyme A Reductase, Reduces Isoprenoid Production in Transgenic Tobacco Plants", <u>Journal of Plant Physiology</u> , 153(3-4):415-424 (1998) | 09/548,256 |
| | AD | 6 | Gonzalez <i>et al.</i> , "Overexpression of HMG-COA Reductase in <i>Arabidopsis thaliana</i> ", <u>Third Terpnnet Meeting of the European Network on Plant Isoprenoids Abstracts</u> , Abstract No. 33, page 33 (1997) | 09/548,256 |
| | AE | 6 | Guo <i>et al.</i> , "Developmental Regulation of Sterol Biosynthesis in Zea Mays", <u>Lipids</u> , 30(3):203-219 (1995) | Submitted Herewith |
| | AF | 6 | Halliwell, "Antioxidants and Human Disease: A General Introduction", <u>Nutrition Reviews</u> , 55(1)(Part II):S44-52 (1997) | 09/548,256 |
| | AG | 6 | Husselstein <i>et al.</i> , "Transformation of <i>Saccharomyces cerevisiae</i> with a cDNA encoding a Sterol C-methyltransferase from <i>Arabidopsis thaliana</i> Results in the Synthesis of 24-ethyl Sterols", <u>FEBS Letters</u> , 381(1,2,26):87-92 (1996) | 09/548,256 |
| | AH | 6 | International Search Report from International Application No. PCT/US00/09696 | Submitted Herewith |
| | AI | 6 | Jouanin <i>et al.</i> , "Transgenic Plants for Insect Resistance", <u>Plant Science</u> , 131(1):1-11 (1998) | 09/548,256 |
| | AJ | 6 | Klahre <i>et al.</i> , "The <i>Arabidopsis</i> DIMINUTO/DWARF1 Gene Encodes a Protein Involved in Steroid Synthesis", <u>The Plant Cell</u> , 10(10):1677-1690 (1998) | 09/548,256 |
| ↓ | AK | 6 | Kochhar, "Influence of Processing of Sterols of Edible Vegetable Oils", <u>Progress in Lipid Research</u> , 22:161-188 (1983) | 09/548,256 |

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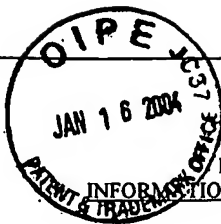
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| /DDC/ | AA | 7 | Li <i>et al.</i> , "Conservation of Function Between Mammalian and Plant Steroid 5 α -Reductases", <u>Proc. Natl. Acad. Sci. USA</u> , 94:3554-3559 (1997) | Submitted Herewith |
| | AB | 7 | Ling <i>et al.</i> , "Minireview Dietary Phytosterols: A Review of Metabolism, Benefits and Side Effects", <u>Life Sciences</u> , 57(3):195-206 (1995) | 09/548,256 |
| | AC | 7 | Long <i>et al.</i> , "Fatty Acid Compositions of Lipid Fractions from Vegetable Cells and Mature Sorocarps of the Cellular Slime Mold Dictyostelium Discoideum", <u>Chem. Abs.</u> , 87(5):213 (1977) (Abstract) | 09/548,256 |
| | AD | 7 | Maimann <i>et al.</i> , "Enhanced Cystathionine beta-lyase Activity in Transgenic Potato Plants does not Force Metabolite Flow Towards Methionine", <u>Planta</u> , 214(2):163-170 (2001) (Abstract) | Submitted Herewith |
| | AE | 7 | Murooka <i>et al.</i> , "Cloning and Expression of a Streptomyces Cholesterol Oxidase Gene in Streptomyces Lividans with Plasmid pIJ702", <u>Appl. Environ. Microbiol.</u> , 52(6):1382-1385 (1986) | 09/548,256 |
| | AF | 7 | Nawrath <i>et al.</i> , "Targeting of the Polyhydroxybutyrate Biosynthetic Pathway to the Plastids of Arabidopsis Thaliana Results in High Levels of Polymer Accumulation", <u>Proc. Natl. Acad. Sci.</u> , 91(27):12760-12764 (1994) | 09/548,256 |
| | AG | 7 | Padgett <i>et al.</i> , "Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line", <u>Crop Science</u> , 35(5):1451-1461 (1995) | 09/548,256 |
| | AH | 7 | Ruzafa <i>et al.</i> , "The Protein Encoded by the Shewanella Colwelliana melA Gene is a p-Hydroxyphenylpyruvate Dioxygenase", <u>FEMS Micro Letters</u> , 142/2:179-184 (1994) | 09/548,256 |
| | AI | 7 | Schaller <i>et al.</i> , "Expression of the <i>Hevea brasiliensis</i> (H.B.K.) Müll. Arg. 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase 1 in Tobacco Results in Sterol Overproduction", <u>Plant Physiol.</u> , 109:761-770 (1995) | 09/548,256 |
| | AJ | 7 | Schaller <i>et al.</i> , "Sterol Composition of Tobacco Expressing an Arabidopsis cDNA Encoding a Sam-Sterol-C24-Methyl-Transferase", <u>Third Terpenet Meeting of the European Network on Plant Isoprenoids Abstracts</u> , Abstract No. 44, page 44 (1997) | 09/548,256 |
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| EXAMINER | | | DATE CONSIDERED | |
| /Deborah Carr/ | | | 05/10/2007 | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | | |
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|  FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | | | ATTY. DOCKET NO. | APPLICATION NO. |
| | | | 16518.132 | 10/647,517 |
| | | | APPLICANTS | |
| | | | Mylavarapu VENKATRAMESH <i>et al.</i> | |
| FILING DATE | | | GROUP | |
| August 26, 2003 | | | To Be Assigned | |
| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | REFERENCE PROVIDED* |
| /DDC/ | AA | 8 | Seitz, "Stanol and Sterol Esters of Ferulic and p-Coumaric Acids in Wheat, Corn, Rye, and Triticale", <u>J. Agri. and Food Chem.</u> , pp. 662-667 (1989) | |
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| | AH | 8 | | |
| | AI | 8 | | |
| | AJ | 8 | | |
| | AK | 8 | | |
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